

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0144**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

During past operations of the Paducah Gaseous Diffusion Plant (PAD), RCRA-hazardous wastes, hazardous constituents, and hazardous substances were released into the environment. The source areas of these releases are often referred to as solid waste management units (SWMUs) and areas of concern (AOCs). In general, SWMUs and AOCs are typically areas such as burial grounds, spill sites, landfarms, surface impoundments, and underground storage tanks (USTs). Releases from some source areas have migrated into the surrounding soils, and in some cases, to the underlying groundwater and adjacent surface water/sediments.

On October 24, 1992, the President signed the Energy Policy Act of 1992, establishing a new government corporation, USEC, whose charter, effective July 1, 1993, was to assume responsibility for uranium enrichment production at the plant. However, the Act required DOE to retain responsibility for remedial action (RA) of environmental releases, management of legacy wastes, and for D&D. The purpose of this project is to fulfill DOE's obligation to investigate and remediate environmental releases pursuant to the Energy Policy Act, as well as regulatory requirements of the RCRA and CERCLA.

Scope

The scope of S&M at PAD includes routine and long-term S&M of DOE facilities and release sites as well as environmental monitoring, and groundwater sampling activities. The specific requirements for S&M activities for release sites, environmental monitoring, and groundwater sampling are defined by various regulatory agreements and permits, including the Kentucky Hazardous Waste Permit, KPDES Permit, Solid Waste Permit, Federal Facility Agreement, the TSCA FFCA, DOE Orders and regulations, as well as CERCLA records of decision and operation and maintenance plans.

The current scope does not account for additional remediation, wastes, or S&M activities associated with actual D&D of the Gaseous Diffusion Plant once the plant ceases operation. For the purpose of this subproject, it is assumed the GDP continues to operate. When a more definitive schedule is developed for D&D of the GDP, the scope under this PBS will be revised to account for the additional work.

Extensive support facilities are required to maintain the diffusion process leased to USEC. These include a steam plant, four electrical switchyards, four sets of cooling towers, a chemical cleaning and decontamination facility, water and wastewater treatment plants, maintenance and laboratory facilities, and one active landfill. Several inactive facilities are also located on the plant site. Once a facility is no longer needed to support the enrichment process, it will typically be transitioned from USEC to DOE. To address these facilities, the D&D Program prepares selected facilities for reuse, or provides for disposition of contaminated facilities that have no further contribution to the DOE mission. This element of the project has two major phases: 1) project preparation consisting of surveillance and maintenance (S&M) to preserve the integrity of the structure and containment of residual radioactive and hazardous wastes, small scope facility stabilization projects to reduce risks or costs, and project planning/design; and 2) project activities to effect facility cleanup and reuse or dismantlement; however, actual decommissioning of PGDP facilities is not within the scope of this plan. Only two PAD facilities are currently in the D&D program: C-340 Metal Reduction Plant (75,000 sq ft) and C-410 Feed Plant (200,000 sq ft). At this time, both facilities are under S&M, with some limited stabilization projects under way. The scope of this project does not include active D&D of these facilities; however, when the remaining portion of the operating plant shuts down, significant scope revisions to this project will be

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 1 of 11

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0144**

Project Description Narratives

required.

The S&M element of this project involves seven major scope elements: residential and monitor well sampling, environmental monitoring; operation of the northwest and northeast groundwater plume pump and treatment facilities as per regulatory agreements and operation and maintenance (O&M) plans; surveillance of all PAD DOE facilities (30 separate structures), and RA sites (209 SWMUs) to monitor conditions and ensure compliance with program requirements; maintenance of all facilities and sites (as listed above and also including groundwater monitoring wells) to prevent degradation and correct deficiencies; S&M operations at postremediation sites to comply with regulations and regulatory agreements, and, facility stabilization actions that improve conditions and/or lower costs or risks.

Technical Approach

The technical approach for S&M will include application of typical industry practices with emphasis on identifying opportunities to reduce long-term mortgage. One particular initiative currently underway includes a feasibility study to evaluate conversion of the existing pump and treat system to an in-situ passive reactive wall, which has the potential to reduce annual S&M costs by approximately \$2M.

O&M at groundwater plume pump and treat facilities and postremedial sites utilize accepted techniques consistent with regulatory requirements, approved O&M plans, and best-management practices. Deficiencies identified from surveillance and inspection will be corrected as appropriate. Generally, the requirements outlined in DOE Orders or standard industry practices are applied in the conduct of maintenance at DOE support facilities. Maintenance will be performed to correct identified deficiencies or as a preventive measure to retard degradation or improve operation factors.

Project Status in FY 2006:

This is an ongoing operation that monitors and/or implements actions to ensure remedial actions remain in compliance with established criteria that protect human health and the environment. Ongoing activities described above will continue to be conducted up to and during the year 2006. The number of sites entering long-term S&M is expected to progressively increase as RA sites complete the remedial construction phase.

Enrichment activities are assumed to be ongoing in FY 2006 by USEC or a successor organization. Therefore, the current scope of PAD D&D will be engaged in long-term S&M up to and during the year 2006. During this period, only actions necessary to maintain the structures at C-340 and C-410, to assure containment of residual contaminants, will be implemented, and no additional facilities are assumed to be transferred from USEC to DOE. Small scope stabilization projects may be implemented to reduce the costs associated with S&M or to recover the assets of excess equipment by property transfers/sales.

Post-2006 Project Scope:

Activities following the remediation will include long-term S&M to ensure remedial activities remain effective, and performance of five-year reviews for any remediation in which wastes or contamination is left in place, as required by CERCLA. Because wastes are assumed to remain in place at landfills and some burial grounds at the site, at least some portion of the site will be restricted from certain types of future uses (e.g., intrusive activities, residential development). Maintaining these institutional controls will be a portion of post-2006 scope for the PAD Environmental Restoration Program. Long-term S&M of DOE facilities will continue in order to assure the continued stability of the sites.

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

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Project End State

The final end state for the PAD Program will be a long-term S&M with institutional controls. This condition is expected because of existence of several on-site WM units, such as landfills or burial grounds that will be closed or remediated with wastes or contamination remaining in place. Kentucky regulations require a postclosure groundwater monitoring and care period of 30 years. For areas where contamination remains in place, five-year reviews of RAs will be performed as required by CERCLA.

The enrichment process will continue to operate under USEC control, or a successor organization. Reindustrialization or reuse of existing DOE facilities, or use of infrastructure, is a possibility, with deed restrictions or use limitations applied to areas that have contamination remaining in place. The final end state for D&D buildings is the effective cleanup of the contaminated facilities such that release for reuse is allowed or the dismantlement of facilities that cannot be reused.

Cost Baseline Comments:

The estimates were initially developed using historic costs for similar types of work, and then adjusted to reflect some of the projected efficiencies from the M&I contracting approach (e.g., fixed-priced subcontracting) unless other contract obligations are currently in effect for a specific work scope. The assumptions contained in the basis of estimate were obtained from the Fiscal Year Baseline, and the expected range of accuracy for the estimate is -20% to +30%.

Safety & Health Hazards:

The Long Term S&M Program includes monitoring of pre-remedial action sites, operations and maintenance of post-remedial action sites, monitoring and maintenance of facilities used in support of the remediation program, environmental monitoring, well sampling, and monitoring of facilities accepted into the D&D program. Activities carry a limited potential for exposure to workers and involve standard industrial type hazards. Little to no risk exists for the public. As the remedial action program progresses, long term S&M activities will be reduced more to inspection and monitoring with more limited risks. The D&D facilities are shutdown facilities, which are not in compliance with OSHA requirements. Until the actual clean up of these facilities occurs, work is limited to inspections and minor corrective maintenance as necessary to ensure safety and minimize exposure.

Safety & Health Work Performance:

Before a subproject begins, several activities must be completed that demonstrate that all involved in the project have completed rigorous health and safety reviews and that all potential hazards of doing the work have been identified. The routine activities in long term S&M are conducted in accordance with standard operating procedures, activity hazard analyses, and Integrated Safety Management plans. Non-routine work will require a readiness assessment as necessary to ensure complete health, safety, and environmental reviews prior to work start. This assessment is conducted by people, experienced in similar kinds of work, with the right to examine all aspects of a project about to commence, and require that the project team provide documented evidence that any applicable requirements of the job have been met.

PBS Comments:

Baseline Validation Narrative:

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 3 of 11

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0144**

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The Oak Ridge Operations Office Environmental Management Life Cycle Baseline (LCB) was submitted by the Managing and Integrating Contractor, Bechtel Jacobs Company LLC, to DOE-ORO on April 1, 1999. The final draft LCB will be submitted to DOE-ORO on June 1, 1999 after formal receipt and incorporation of comments. A validation of the baseline is in process using an independent contractor to DOE-ORO. The validation will be ongoing until complete and the final validation report is scheduled to be issued on June 25, 1999.

General PBS Information

Project Validated?

Date Validated:

Has Headquarters reviewed and approved project?

No

Date Project was Added: 3/10/1999

Baseline Submission Date: 7/1/1999

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	Y	N

Project Identification Information

DOE Project Manager: Myrna E. Redfield

DOE Project Manager Phone Number: 502-441-6815

DOE Project Manager Fax Number: 502-441-6801

DOE Project Manager e-mail address: redfieldme@ornl.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	74,146	645,172	719,318	1,618	1,618	3,147	6,100	8,454	8,438	9,282	9,597	9,082	9,744	8,777	6,007

Dataset Name: **FY 1999 Planning Data**

Page 4 of 11

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Oak Ridge

Site Summary Level: Paducah Gaseous Diffusion Plant

Project OR-543 / Paducah Surveillance and Maintenance

Report Number: GEN-01b

Print Date: 3/9/2000

HQ ID: 0144

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (constant 1999 dollars)	69,486	268,562	338,048	1,618	1,618	3,147	6,100	8,454	8,264	8,904	9,017	8,358	8,782	7,748	5,194	
PBS EM Baseline (current year dollars)	74,146	645,172	719,318	1,618	1,618	3,147	6,100	8,454	8,438	9,282	9,597	9,082	9,744	8,777	6,007	
PBS EM Baseline (constant 1999 dollars)	69,486	268,562	338,048	1,618	1,618	3,147	6,100	8,454	8,264	8,904	9,017	8,358	8,782	7,748	5,194	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	6,702	6,267	7,127	7,076	30,948	30,092	33,387	37,043	41,099	45,599	50,593	56,133	62,280	69,099	76,666	85,061
PBS Baseline (constant 1999 dollars)	5,675	5,198	5,790	5,630	23,145	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284
PBS EM Baseline (current year dollars)	6,702	6,267	7,127	7,076	30,948	30,092	33,387	37,043	41,099	45,599	50,593	56,133	62,280	69,099	76,666	85,061
PBS EM Baseline (constant 1999 dollars)	5,675	5,198	5,790	5,630	23,145	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284	20,284

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070

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Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0144**

2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project:

Current Projected End Date of Project: 9/30/2070

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	Actual 1997 Cost:	1,618	Actual 1998 Cost:	6,100
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-7,718	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):		-208
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	-7,926			

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	-7,926	
Additional Amount to Reconcile (+):	341,209	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	333,283	

Milestones

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

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Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0144**

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
S&M C-746-S&T Landfill GW - ACTIVITY 1-REPORT SUBMITTAL TO KDWM	OR543-001		2/28/2000	2/28/2000			Y				
S&M C-746-S&T Landfill GW - ACTIVITY 2-REPORT SUBMITTAL TO KDWM	OR543-002		5/30/2000	5/30/2000			Y				
S&M C-746-S&T Landfill GW - ACTIVITY 3-REPORT SUBMITTAL TO KDWM	OR543-003		8/31/2000	8/31/2000			Y				
S&M C-746-S&T Landfill GW - ACTIVITY 4-REPORT SUBMITTAL TO KDWM	OR543-004		12/1/2000	12/1/2000			Y				
S&M C-746-U Landfill O&M - ACTIVITY 1-REPORT SUBMITTAL TO KDWM	OR543-005		3/7/2000	3/7/2000			Y				
S&M C-746-U Landfill O&M - ACTIVITY 2-REPORT SUBMITTAL TO KDWM	OR543-006		6/7/2000	6/7/2000			Y				
S&M C-746-U Landfill O&M - ACTIVITY 3-REPORT SUBMITTAL TO KDWM	OR543-007		9/7/2000	9/7/2000			Y				
S&M C-746-U Landfill O&M - ACTIVITY 4-REPORT SUBMITTAL TO KDWM	OR543-008		12/8/2000	12/8/2000			Y				
S&M - ISSUE DRAFT SITE ENVIRONMENTAL RPT FOR REG REVIE	OR543-009		10/10/2000	10/10/2000			Y				
S&M ACTIVITY 1-REPORTING	OR543-010		10/28/1999	10/28/1999			Y				
S&M ACTIVITY 2-REPORTING	OR543-011		11/28/1999	11/28/1999			Y				
S&M ACTIVITY 3-REPORTING	OR543-012		12/28/1999	12/28/1999			Y				
S&M ACTIVITY 4-REPORTING	OR543-013		1/28/2000	1/28/2000			Y				
S&M ACTIVITY 5-REPORTING	OR543-014		2/28/2000	2/28/2000			Y				
S&M ACTIVITY 6-REPORTING	OR543-015		3/28/2000	3/28/2000			Y				
S&M ACTIVITY 7-REPORTING	OR543-016		4/28/2000	4/28/2000			Y				
S&M ACTIVITY 8-REPORTING	OR543-017		5/28/2000	5/28/2000			Y				
S&M ACTIVITY 9-REPORTING	OR543-018		6/28/2000	6/28/2000			Y				

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

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Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0144**

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S&M ACTIVITY 10-REPORTING	OR543-019		7/28/2000	7/28/2000			Y				
S&M ACTIVITY 11-REPORTING	OR543-020		8/28/2000	8/28/2000			Y				
S&M ACTIVITY 12-REPORTING	OR543-021		9/28/2000	9/28/2000			Y				
S&M ISSUE REPORT	OR543-022		11/17/1999	11/17/1999			Y				
S&M ISSUE REPORT	OR543-023		3/3/2000	3/3/2000			Y				
S&M QuISSUE REPORT	OR543-024		6/2/2000	6/2/2000			Y				
S&M ISSUE REPORT	OR543-025		9/1/2000	9/1/2000			Y				
S&M C-746-K Lanfill - ISSUE C-746-K REPORT	OR543-026		2/1/2000	2/1/2000			Y				
S&M C-746-K Landfill - ISSUE C-746-K REPORT	OR543-027		8/2/2000	8/2/2000			Y				
S&M ISSUE FINAL GW PROTECTION PLAN	OR543-028		6/26/2000	6/26/2000			Y				
S&M ISSUE FINAL GW MANAGEMENT PLAN	OR543-029		7/2/2000	7/2/2000			Y				
Paducah S&M PBS Project Start	OR543-030		10/1/1996								
Paducah S&M PBS Project Complete	OR543-031		9/30/2070								
Paducah S&M Mission Completion	OR543-032		9/30/2070								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
S&M C-746-S&T Landfill GW - ACTIVITY 1-REPORT SUBMITTAL TO KDWM	OR543-001										S&M C-746-S&T Landfill GW Qtr Rpt to regulators
S&M C-746-S&T Landfill GW - ACTIVITY 2-REPORT SUBMITTAL TO KDWM	OR543-002										S&M C-746-S&T Landfill GW Qtr Rpt to regulators
S&M C-746-S&T Landfill GW -	OR543-003										S&M C-746-S&T Landfill GW Qtr

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

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Operations/Field Office: **Oak Ridge**

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Project **OR-543 / Paducah Surveillance and Maintenance**

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ACTIVITY 3-REPORT SUBMITTAL TO KDWM											Rpt to regulators
S&M C-746-S&T Landfill GW - ACTIVITY 4-REPORT SUBMITTAL TO KDWM	OR543-004										S&M C-746-S&T Landfill GW Qtr Rpt to regulators
S&M C-746-U Landfill O&M - ACTIVITY 1-REPORT SUBMITTAL TO KDWM	OR543-005										S&M C-746-U Landfill O&M Qtr Rpt to regulators
S&M C-746-U Landfill O&M - ACTIVITY 2-REPORT SUBMITTAL TO KDWM	OR543-006										S&M C-746-U Landfill O&M Qtr Rpt to regulators
S&M C-746-U Landfill O&M - ACTIVITY 3-REPORT SUBMITTAL TO KDWM	OR543-007										S&M C-746-U Landfill O&M Qtr Rpt to regulators
S&M C-746-U Landfill O&M - ACTIVITY 4-REPORT SUBMITTAL TO KDWM	OR543-008										S&M C-746-U Landfill O&M Qtr Rpt to regulators
S&M - ISSUE DRAFT SITE ENVIRONMENTAL RPT FOR REG REVIE	OR543-009										S&M Annual Site Environmental Rpt to regulators
S&M ACTIVITY 1-REPORTING	OR543-010										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 2-REPORTING	OR543-011										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 3-REPORTING	OR543-012										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 4-REPORTING	OR543-013										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 5-REPORTING	OR543-014										S&M Monthly KPDES DMR to

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 9 of 11

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

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Report Number: **GEN-01b**

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S&M ACTIVITY 6-REPORTING	OR543-015										regulators S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 7-REPORTING	OR543-016										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 8-REPORTING	OR543-017										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 9-REPORTING	OR543-018										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 10-REPORTING	OR543-019										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 11-REPORTING	OR543-020										S&M Monthly KPDES DMR to regulators
S&M ACTIVITY 12-REPORTING	OR543-021										S&M Monthly KPDES DMR
S&M ISSUE REPORT	OR543-022										S&M Quarterly KPDES DMR to regulators
S&M ISSUE REPORT	OR543-023										S&M Quarterly KPDES DMR to regulators
S&M QuISSUE REPORT	OR543-024										S&M Quarterly KPDES DMR to regulators
S&M ISSUE REPORT	OR543-025										S&M Quarterly KPDES DMR to regulators
S&M C-746-K Landfill - ISSUE C-746-K REPORT	OR543-026										S&M C-746-K Landfill Semiannual Rpt to regulators
S&M C-746-K Landfill - ISSUE C-746-K REPORT	OR543-027										S&M C-746-K Landfill Semiannual Rpt to regulators
S&M ISSUE FINAL GW PROTECTION PLAN	OR543-028										S&M Annual Groundwater Protection Plan to regulators

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 10 of 11

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

Project **OR-543 / Paducah Surveillance and Maintenance**

Report Number: **GEN-01b**

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S&M ISSUE FINAL GW MANAGEMENT PLAN	OR543-029										S&M Annual Groundwater Management Plan to regulators
Paducah S&M PBS Project Start	OR543-030			Y							S&M PBS Project Start
Paducah S&M PBS Project Complete	OR543-031				Y						S&M PBS Project Complete
Paducah S&M Mission Completion	OR543-032					Y					

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
Rem. Waste														
Disposed	M3	154.00	145.00	299.00					22.00	4.00	23.00	23.00	22.00	22.00
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	Planned 2036 - 2040
Rem. Waste														
Disposed	M3	22.00	22.00	16.00	16.00	16.00	16.00	16.00	78.00	2.00	1.00			
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total				
Rem. Waste														
Disposed	M3									277.00				